Schedule

9-June

8:00-8:45 Opening, Chair **Ouyang Ziyuan**

Session 1 Lunar Rocks

Chairs: Clive Neal and Yangting Lin

8:45-9:10 **Clive Neal** and D. S. Draper
Are Ferroan Anorthosites Direct Products of the Lunar Magma Ocean?

9:10-9:25 **Y. H. Lin**, E. S. Steenstra, W. van Westrenen
Hydrous Early Moon? Constraints from Hydrous Lunar Magma Ocean Solidification Experiments

9:25-9:40 **Y. Miura** and T. Tanosaki
Lunar Minerals and Rocks: Volatiles Separted by Impact and Volcanic Events

9:40-9:55 **X. Y. Zhang**, A. A. Xu, Z. S. Tang, Z. Y. Ouyang, Y. Z. Wu
Mineralogical Variation of the Late Stage Mare Basalts

9:55-10:10 **Xianmin Wang**
Identification of Rock Suits on the Lunar Surface

10:10-10: 25 **Ying Sun**
Quantitative Spectral Analysis with M3 Images Applied to the Theophilus Central Peak

10:25-10:40 Coffee Break

Session 2 Surface Processes on the Moon

Chairs: Menghua Zhu and R. Bugiolacchi

10:40-10:55 **Bo Li**, Jiang Zhang, Zongcheng Ling, Jian Chen
Displacement-Length Relationship and Amount of Strain for Lunar Wrinkle Ridges in Mare Serenitatis and Tranquillitatis

10:55-11:10 **Bo Wu**, Tao Jun Lin, Jinyi Li, and Yiran Wang
Distribution And Population Characteristics Of Lunar Craters In Orientale Basin From The Recent High-Resolution Remote Sensing Datasets

11:10-11:25 **M. -H. Zhu**
Numerical Modeling of Ejecta Distribution and Crater Formation of Large Impact Basins on the Moon

11:25-11:40 **Zhiyong Xiao**
Emplacement History of Self-Secondaries

11:40-11:55 **R. Bugiolacchi**
Survey and Analysis of the Craters Population in the Apollo 17 Region: Wider Implications for Crater Geochronology

11:55-12:10 **Jun Du**, Wenzhe Fa, Minggang Xie, And Meng-Hua Zhu
Thickness of Lunar Maria Basalts: New Results Based on Degraded Partially Buried Craters

12:10-14:00 Lunch Break

Session 3 Lunar Interior

Chairs: Mark A. Wieczorek, Koji Matsumoto

14:00-14:25 **Mark A. Wieczorek**
New Results from NASA's Lunar Gravity Mapping Mission GRAIL

14:25-14:40 **Qian Huang**
Mass Anomalies Beneath the Surface of Lunar Volcanic Complexes from GRAIL Bouguer Gravity Field

14:40-14:55 **X. Y. Wang**, Q. Liang
Linear Structures Of Lunar Gravity Anomalies

14:55-15:10 **Yan Jianguo**, Zhang Yi, Li Fei, Ye Mao, Chen Chao, Du Jinsong
High Resolution Lunar Mascon Density Structure Revealed by Grail Gravity

15:10-15:25 **Y. Harada**, S. Goossens, K. Matsumoto, J. Yan, J. Ping, H. Noda, And J. Haruyama
The Deep Lunar Interior with a Low-Viscosity Zone: Revised Constraints from Recent Geodetic Parameters on the Tidal Response of the Moon

15:25-15:40 **Yu Shuoran**, Tosi Nicola, Wong Hon-Cheng
Competition Between Stagnant Lid Thickening And Development Of Lunar Magma Ocean Overturn

15:40-15:55 **Koji Matsumoto** and H. Ikeda
Moments of Inertia of Phobos with Inhomogeneous Internal Structure

15:55-16:10 Coffee Break

Session 4 Atmosphere and Space Physics

Chairs: Jun Cui, Yong Wei

16:10-16:35 **Jun Cui**
How to Interpret the Temperature Variability in Titan's Upper Atmosphere

16:35-:16:50 **Zhenfei Zhang**, Qian Huang
Magnetic Field-Associated Dielectric Anisotropy of the Martian Ionosphere Detected by MARSIS

16:50-17:15 **Y. Wei** and W. Wan
Comparative Aeronomy as a Planetary Perspective on Earth's Environmental Evolution

17:15-17:30 **Lianghai Xie,** Xiaoping Zhang, Yongchun Zheng, Dawei Gu
Solar Wind-Generated Current in the Lunar Dust Experiment

17:30-17:45 **K. C. Chow**, K. L. Chan, and K. V. Tam
Numerical Modeling of the Atmospheric Circulation and Dust Cycle on Mars

17:45-18:45 **Poster Session**

10-June

Session 5 Water on Mars

Chairs: J. W. Head III and Tim D. Glotch

8:00-8:25 **J. W. Head III**
Late Noachian "Cold and Icy Highlands" Model: Geological Predictions for Equilibrium Environments and Non-Equilibrium Melting Scenarios

8:25-8:40 **D. R. Hood**, S. Karunatillake, D. Susko
Martian Bulk Soil Hydration Revealed By Principal Component Analysis of Regional Chemical Data

8:40-8:55 **S. Hu**, Y. T. Lin, W. Yang, J. C. Zhang, J. L. Hao, W. F. Xing, T. Zhang
Martian Water: Origin and Evolution

8:55-9:20 **T. D. Glotch,** M. M. Osterloo, J. L. Bandfield
Composition, Physical Properties, And Hydration State Of Halite-Bearing Deposits On Mars

9:20-9:45 **J. P. Bibring**
Mars History Revisited: Building New Paradigm

9:45-10:00 Coffee Break

Session 6 Mars Surface Geology

Chairs: Long Xiao and Goro Komatsu

10:00-10:15 **S. Gou**, K. Di, And Z. Yue
Characterization of Hydrous and Mafic Minerals in Tyrrhena Terra, Mars

10:15-10:30 **Zongyu Yue**, S. Gou, H. Xie, K. Di.
An Investigation into the Paradox for the Platy-Ridged-Polygonized Terrain in Elysium Planitia, Mars

10:30-10:55 **Goro Komatsu**
The Utility of Field Conferences in Harnessing the Scientific Potential of Terrestrial Analogs in Asia for Planetary Geology Research

10:55-11:20 **Long Xiao,** J. Wang, Y. N. Dang, Z. Y. Cheng, T. Huang, J N. Zhao, J. Huang, Y. Xu, Z. Y. Xiao
Qaidam Basin, NE Tibetan Plateau: A New Unique Mars Analogue Site for Its Wet Past and Dry Environemnt Today

11:20-11:35 **Yanan Dang**, L. Xiao, Y. Xu, B. Wang
Morphology and Composition of Polygon Surface Structures in the Qaidam Basin and Implications for Mars

11:35-12:00 **Yiliang Li**
Earth'S Early Biosphere without an Ozone Layer

12:00-14:00 Lunch Break

Session 7 Mineralogy and Geochemistry

Chairs: Liping Qin and Aicheng Zhang

14:00-14:25 **A. C. Zhang**, Q. L. Li, H. Yurimoto, N. Sakamoto, X. H. Li, S. Hu, Y. T. Lin, And R. C. Wang
Young Fluid Activity in the Early Solar System Recorded by Apatite in a Type 3 Carbonaceous Chondrite

14:25-14:40 **Huaping Wang**
Lifetime Of The Solar Nebula Constrained By Meteorite Paleomagnetism And Delayed Onset Of A Planetesimal Dynamo

14:40-14:55 **M. Yasutake** and A. Yamaguchi
Opx Enriched Lodranite, Y:983119 Cumulate Rock from Acapulcoite-Lodranite Parent Planetesimal?

14:55-15:20 **Liping Qin**
The Use of Metal Isotopes to Trace Planetary Processes

15:20-15:35 **W. Yang**, S. Hu, J. C. Zhang, J. L. Hao, Y. T. Lin
NanoSIMS Analytical Methods for Extraterrestrial Samples

15:35-15:50 **Shuhao Zuo** and Zhidong Xie
The Occurrence and Mineralogy of Iron-Rich Spherules of Taihu Lake Suggest They Likely were Airburst Fallout rather than Groundwater Colloidal Deposition

15:50-16:05 Coffee Break

Session 8 Small Bodies

Chairs: Jianyang Li and Nori Namiki

16:05-16:30 **Jianyang Li**
Dawn at Ceres

16:30-16:45 **E. Tatsumi**, N. Hirata, S. Koga, S. Sugita
Local Space Weathering Mapping on Itokawa Based on the AMICA Close-Up Images

16:45-17:00 **Y. Jiang,** J. H. Ji, J. C. Huang, S. Marchi, Y. Li and W.-H. Ip
Boulders And Craters On 4179 Toutatis As Closely Flew By Chang'E-2

17:00-17:25 T. Mizuno, H. Senshu, H. Noda, **N. Namiki**, S. Oshigami, T. Kase, T. Shiina, et al.
Development and Initial Operation of Hayabusa2 LIDAR

17:25-17:40 **Zhuo-Xi Huo** and Jiang-Chuan Huang
CROWN: A Constellation of Heterogenous Wide-Field NEO Surveyors

17:40-17:55 **R. Yamada**, Y. Ishihara, N. Kobayashi, H. Murakami, S. Tanaka, et al.
Scientific Results Expected from the APPROACH Mission

17:55-18:10 Closing Remarks, Chair **James W. Head III**